

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 3 AND WAUGH CHAPEL ROAD /RIEDEL ROAD IN ANNE ARUNDEL COUNTY. MD 3 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION OPERATES IN A NEMA SIX-PHASE, FULL-TRAFFIC-ACTUATED MODE WITH EXCLUSIVE LEFT TURN PHASES FOR NORTHBOUND AND SOUTHBOUND MD 3 AND SIDE STREET SPLIT PHASING. FIREHOUSE PRE-EMPTION EXISTS FOR WESTBOUND REIDEL ROAD. THIS PHASING WILL NOT CHANGE.

CONTROLLER REQUIREMENTS

THE EXISTING EIGHT-PHASE, FULLY-ACTUATED CONTROLLER HOUSED IN A NEMA SIZE '6' BASE MOUNTED CABINET WILL BE USED.

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE FURNISHED BY THE SHA AND INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
NONE		

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR. ALL EQUIPMENT SHALL HAVE CATALOG CUTS SUBMITTED TO THE OFFICE OF TRAFFIC AND SAFETY FOR APPROVAL PRIOR TO INSTALLATION.

QUANTITY	DESCRIPTION
LS	MAINTENANCE OF TRAFFIC
2 CY	TEST PIT EXCAVATION
40 LF	FURNISH AND INSTALL 24 IN. WHITE HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING
1 EA	FURNISH AND INSTALL 500 FT. VIDEO DETECTION CABLE
20 EA	FURNISH AND INSTALL 12 IN. VEHICULAR SIGNAL HEAD SECTION
1 EA	FURNISH AND INSTALL 60 FT. MAST ARM AND POLE
1 EA	FURNISH AND INSTALL 70 FT. MAST ARM AND POLE
LS	REMOVE AND DISPOSE OF EXISTING EQUIPMENT
1 EA	RELOCATE EXISTING VIDEO DETECTION CAMERA
80 LF	FURNISH AND INSTALL 3 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - TRENCHED
550 LF	FURNISH AND INSTALL 4 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - BORED
150 LF	FURNISH AND INSTALL 4 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - TRENCHED
8 CY	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
470 LF	FURNISH AND INSTALL NO. 6 AWG STRANDED BARE COPPER WIRE
5 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
2 EA	FURNISH AND INSTALL GROUND ROD 3/4 IN. DIAMETER X 10 FT. LENGTH
50 LF	FURNISH AND INSTALL ELECTRICAL CABLE 5-CONDUCTOR (NO. 14 A.W.G.)
1350 LF	FURNISH AND INSTALL ELECTRICAL CABLE 7-CONDUCTOR (NO. 14 A.W.G.)
5 EA	FURNISH AND INSTALL R3-5(L) SIGN (30" X 36") - MAST ARM MOUNT
2 EA	RELOCATE EXISTING OVERHEAD SIGN
6000 LF	REMOVE AND REINSTALL EXISTING CABLE

EQUIPMENT LIST "C"

C. EXISTING EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION, 7491 CONNELLEY DRIVE, HANOVER, MARYLAND 21076. THE CONTRACTOR SHALL NOTIFY THE SHA AT (410) 787-7652 AT LEAST THREE DAYS IN ADVANCE OF DELIVERY.

ITEM NO.	QUANTITY	DESCRIPTION
NONE		

ALL SIGNAL EQUIPMENT TO BE REMOVED AND NOT RETURNED TO THE SHA SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
	Q	R	S	T	U	V	W	X	Y	Z	a	b	c	d	e	f
PHASE 1 + 5	G	G	R	R	G	G	R	R	R	R	R	R	R	R	R	R
1 + 5 CHANGE	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
PHASE 2 + 5	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
2 + 5 CHANGE	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
PHASE 1 + 6	G	G	G	G	R	R	R	R	R	R	R	R	R	R	R	R
1 + 6 CHANGE	Y	Y	Y	Y	G	G	R	R	R	R	R	R	R	R	R	R
PHASE 2 + 6	R	R	R	R	G	G	R	R	R	R	R	R	R	R	R	R
2 + 6 CHANGE	R	R	R	R	Y	Y	R	R	R	R	R	R	R	R	R	R
PHASE 3	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
3 CHANGE	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
PHASE 4	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
4 CHANGE	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
PRE-EMPTION	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
CHANGE	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
FLASHING OPERATION	FLR	FLR	FLR	FLY	FLY	FLR	FLR	FLR	FLY	FLY	FLR	FLR	FLR	FLR	FLR	FLR

CONTACT PERSONS FOR DISTRICT 5 ARE AS FOLLOWS:

MRS. KIM TRAN
ASSISTANT DISTRICT ENGINEER - TRAFFIC
(410) 841-1003

MR. CHARLES GEORGE
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
(410) 841-1002

MR. JOHN MAYS
ASSISTANT DISTRICT ENGINEER - UTILITIES
(410) 841-1005

CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY

MR. RICHARD DAFF, SR.
CHIEF, TRAFFIC OPERATIONS
(410) 787-7630

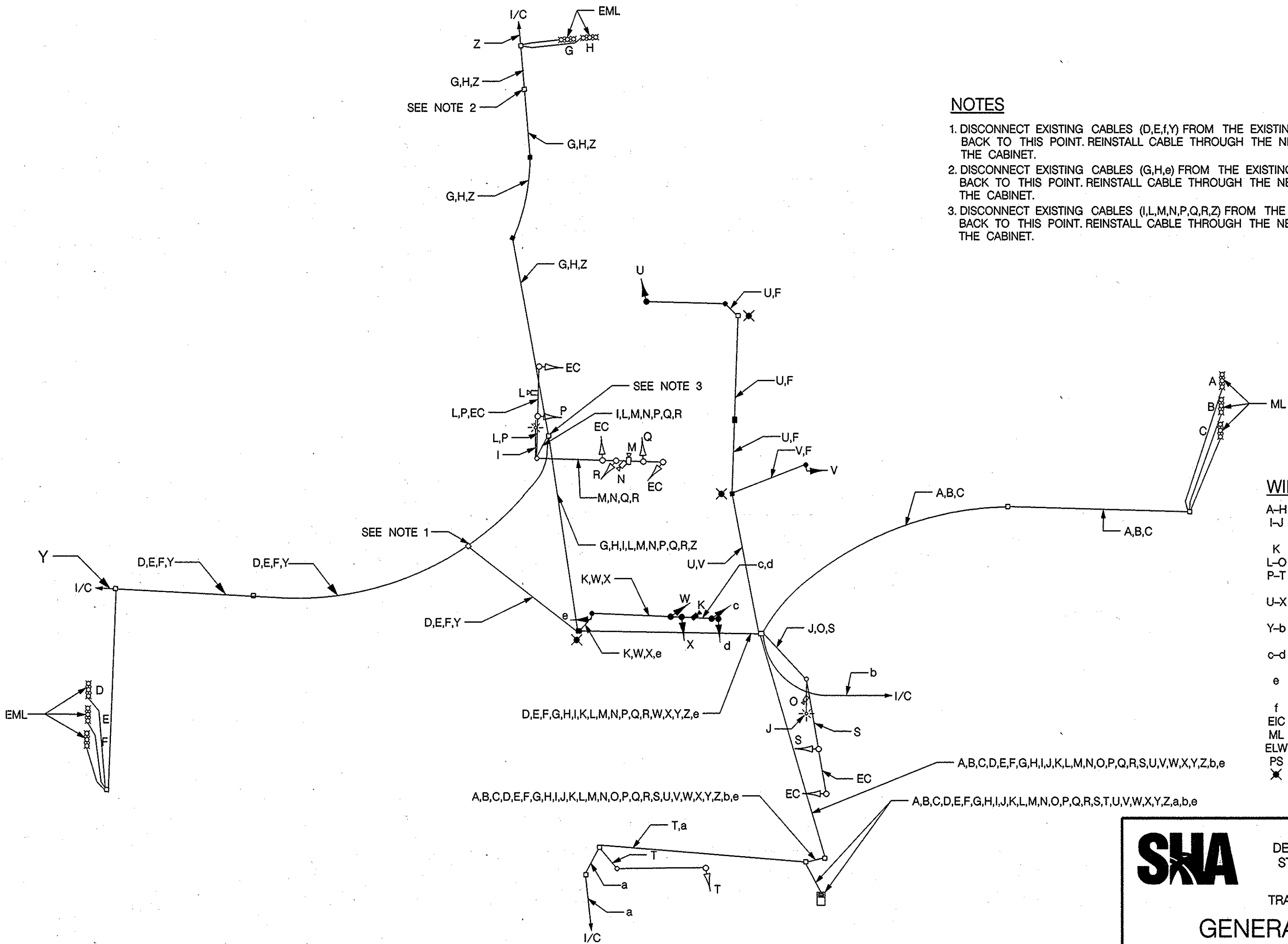
MR. EUGENE BAILEY
TEAM LEADER SIGN OPERATIONS
(410) 787-7676

MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF,
TRAFFIC OPERATIONS
(410) 787-7631

MS. DARLENE EIDE
SUPPLY OFFICE
SIGNAL SHOP WAREHOUSE
(410) 787-7668

MR. ED RODENHIZER
TEAM LEADER SIGNAL OPERATIONS
(410) 787-7652

WIRING DIAGRAM



NOTES

- DISCONNECT EXISTING CABLES (D,E,I,Y) FROM THE EXISTING CONTROLLER AND PULL BACK TO THIS POINT. REINSTALL CABLE THROUGH THE NEW CONDUIT TO THE CABINET.
- DISCONNECT EXISTING CABLES (G,H,a) FROM THE EXISTING CONTROLLER AND PULL BACK TO THIS POINT. REINSTALL CABLE THROUGH THE NEW CONDUIT TO THE CABINET.
- DISCONNECT EXISTING CABLES (I,L,M,N,P,Q,R,Z) FROM THE EXISTING CONTROLLER AND PULL BACK TO THIS POINT. REINSTALL CABLE THROUGH THE NEW CONDUIT TO THE CABINET.

WIRING KEY

A-H	EXISTING MICRO-LOOP PROBE LEAD-IN
I-J	EXISTING 2-CONDUCTOR ELECTRICAL CABLE (NO. 12 A.W.G.)
K	VIDEO DETECTION CABLE
L-O	EXISTING VIDEO DETECTION CABLE
P-T	EXISTING 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
U-X	7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
Y-b	EXISTING 12-PAIR VOICE GRADE INTERCONNECT CABLE
c-d	5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
e	7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
f	STRANDED BARE COPPER GROUND WIRE
EC	EXISTING INTERCONNECT CABLE
ML	MICRO-LOOP PROBE
ELW	EXISTING LOOP WIRE (NO. 14 A.W.G.)
PS	PROPOSED ELECTRIC SERVICE
X	GROUND ROD



STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

GENERAL INFORMATION PLAN

MD 3 AND WAUGH CHAPEL RD./RIEDEL RD.

TRAFFIC **C**ONCEPTS INC.
325 Gambrills Road
Suite E
Gambrills, MD 21054
(410) 923-7101
FAX (410) 923-6473
EMAIL TRAFFIC.CONCEPTS@COMCAST.NET

SCALE	NONE	DATE	3-13-07	CONTRACT NO.	BW 996M82
DESIGNED BY	T. ZAYDEL	COUNTY	ANNE ARUNDEL		
DRAWN BY	T. ZAYDEL	LOGMILE	02000303.96		
CHECKED BY	K. SCHMID	T.I.M.S. NO.	1127		
F.A.P. NO.	NA	TOD NO.			
DRAWING NO.	TS-1515 GI	SHEET NO.	2	OF	2